



Rome, Domus Pacis – 12-14 October 2006

---

## The Impact of Digital Library Service on Scientific Production of a Media Sized University: The University of Messina's Experience

Ugo Contino – [ugo.contino@caspur.it](mailto:ugo.contino@caspur.it)

Nunzio Femminò – [nunzio@unime.it](mailto:nunzio@unime.it)



UNIVERSITÀ DEGLI STUDI DI MESSINA  
Tradizione e cambiamento al centro del Mediterraneo

 **CASPUR**

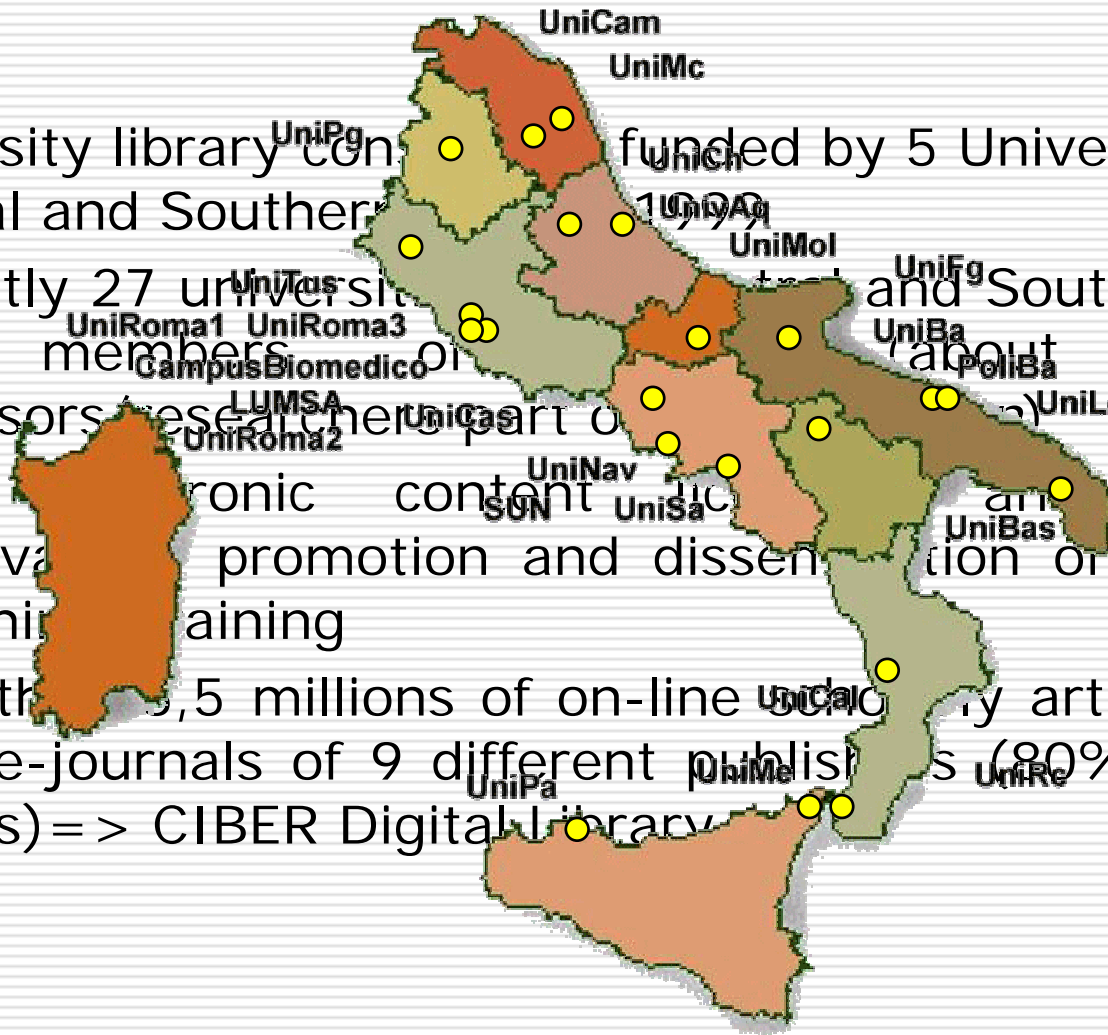
# Agenda

---

- ❑ The *CIBER* context
- ❑ An overview on usage statistics production for *CIBER*'s users
- ❑ The new portal for usage statistics
- ❑ Users sample identification
- ❑ Network tools chosen to measure users' productivity
- ❑ Analysis methodology
- ❑ Some *preliminary* results
- ❑ Final remarks

# The CIBER context

- university library consortium funded by 5 Universities in Central and Southern Italy
- currently 27 universities are members of CIBER (about 25.000 professors, researchers part of)
- aims: electronic content loading, preservation, promotion and dissemination of scholarly publishing, training
- more than 5,5 millions of on-line scholarly articles from 4477 e-journals of 9 different publishers (80% full-text articles) => CIBER Digital Library



# Usage statistics for CIBER DigLib

- Fully compliant with COUNTER<sup>(1)</sup> specs (rel. 2) since May 2005 (data available since January 2005)

ip	username	ente	editore	remote	issn	volissue	artinfo	arttype	tawflag	giorno	mese	anno	ora	minuti	timeabs	pubdate
192.167.13.		Chieti (Universita' Gabriele D'Annunzio)	my-ELSEVIER	1	15908658	v35i0004	232_atlrlthpe	html	0	1	Apr	2005	17	45	1112370303	2003- 4-
192.167.13.		Chieti (Universita' Gabriele D'Annunzio)	my-ELSEVIER	1	09248579	v24i0005	433_hlodrtfpafot	html	0	1	Apr	2005	17	45	1112370342	2004- 11-
192.167.13.		Chieti (Universita' Gabriele D'Annunzio)	my-ELSEVIER	1	15908658	v35i0010	711_lbttapewstt	html	0	1	Apr	2005	17	46	1112370360	2003- 10-
192.167.13.		Chieti (Universita' Gabriele D'Annunzio)	my-ELSEVIER	1	15908658	v36i0006	377_qtaafhtpof	html	0	1	Apr	2005	17	46	1112370375	2004- 6-

- All stats data feed a local DB (MySQL based)

(1) <http://www.projectcounter.org>

# The new portal for usage statistics

---

- ❑ Interactive multi-user system
- ❑ Output schema (stats download included)
  - JR1 and JR2 Standard COUNTER reports
  - Top list reports (journals, issues, articles, subjects, IP)
- ❑ New elements of usage analysis:
  - Article cover date
  - Library of Congress Subject e-journals Categories
  - MIUR<sup>(1)</sup> Subject e-journals Categories
- ❑ The “free query” function
- ❑ Open source tools for portal development

(1) Italian Ministry of Universities and Scientific Research





Coordinamento Interuniversitario  
Basi dati & Editoria in Rete

Gruppo di Lavoro Statistiche



Home

Anno

Counter (R2)

Home -> Riepilogo Generale - 2006

## CIBER (Consorzio)



Coordinamento Interuniversitario  
Basi dati & Editoria in Rete

Gruppo di Lavoro Statistiche



Home

Anno

Counter (R2)

TOPs

Report Analitico

Categorie MIUR

Query Libera

Tabelle

Info

Uscita

Home -> query - 2006

## CIBER (Consorzio)

### QUERY LIBERA

In questa sezione e' possibile effettuare una query con i dati desiderati.

Anno: 2006

Raggruppamento: Nessuno

Conteggio: No

IP:

Ordinamento: Nessuno

Crescente

ISSN:

Mostra righe: 50

Anno Article:

Mese DWL: Tutti

Avvia Ricerca

Ripristina

Categoria: Tutte

Agg. Agosto 2006

a cura del C.A.B. Centro di Ateneo per le Biblioteche - Messina

Blackware Linux



MySQL

Altre categorie

Farmacol.Tossicol  
Sc.Farmaceutiche

Ing.Civile  
Architettura

Ing. Industriale  
e cell.informaz.

Sc. agrarie e  
Veterinarie

Sc.Biologiche

Sc.Chimiche

Sc.Antichità Filolog  
letter. Storico-art.st.

Sc. della Terra

Sc. Economiche  
e Statistiche

Sc. Fisiche

Sc. Giuridiche

Sc. Matematiche  
e Informatiche

Sc. Mediche

Sc. Politiche  
e Sociali

Sc. Storiche Filosof  
Pedagog. Psicolog.

# The chosen approach

- Given a set of well defined  
time periods the total

We analyze  
1990-2004  
Materials  
(materials)

APPLIED CATALYSIS A-GENERAL

APPLIED SURFACE SCIENCE

Catalysis Today

EUROPEAN JOURNAL OF PHARMACOLOGY

Food Chemistry

JOURNAL OF CHROMATOGRAPHY A

JOURNAL OF HEPATOLOGY

Journal of Molecular Liquids

Journal of Molecular Structure

Journal of Pharmaceutical and Biomedical Analysis

Marine Chemistry

NUCLEAR PHYSICS A

Physica B: Condensed Matter

Studies in Surface Science and Catalysis

Thermochimica Acta

Farmaco

Life Sciences

Forensic science international

Neuroscience Letters

Journal of the European Ceramic Society

Journal of Power Sources

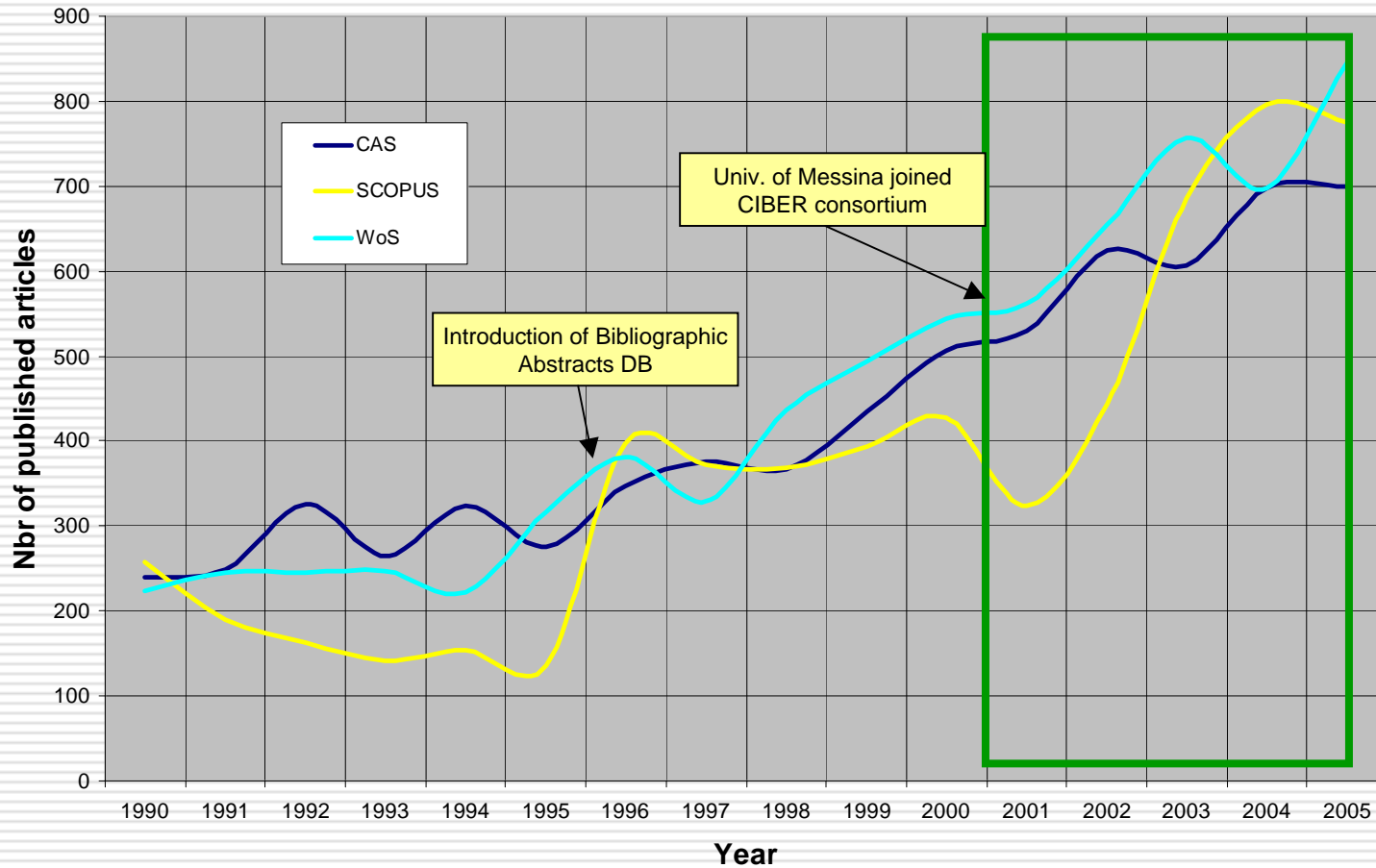
Materials Science and Engineering A

E-journals chosen for  
Article download  
analysis

value accross  
with Science,  
tments  
sina)

# Scientific production

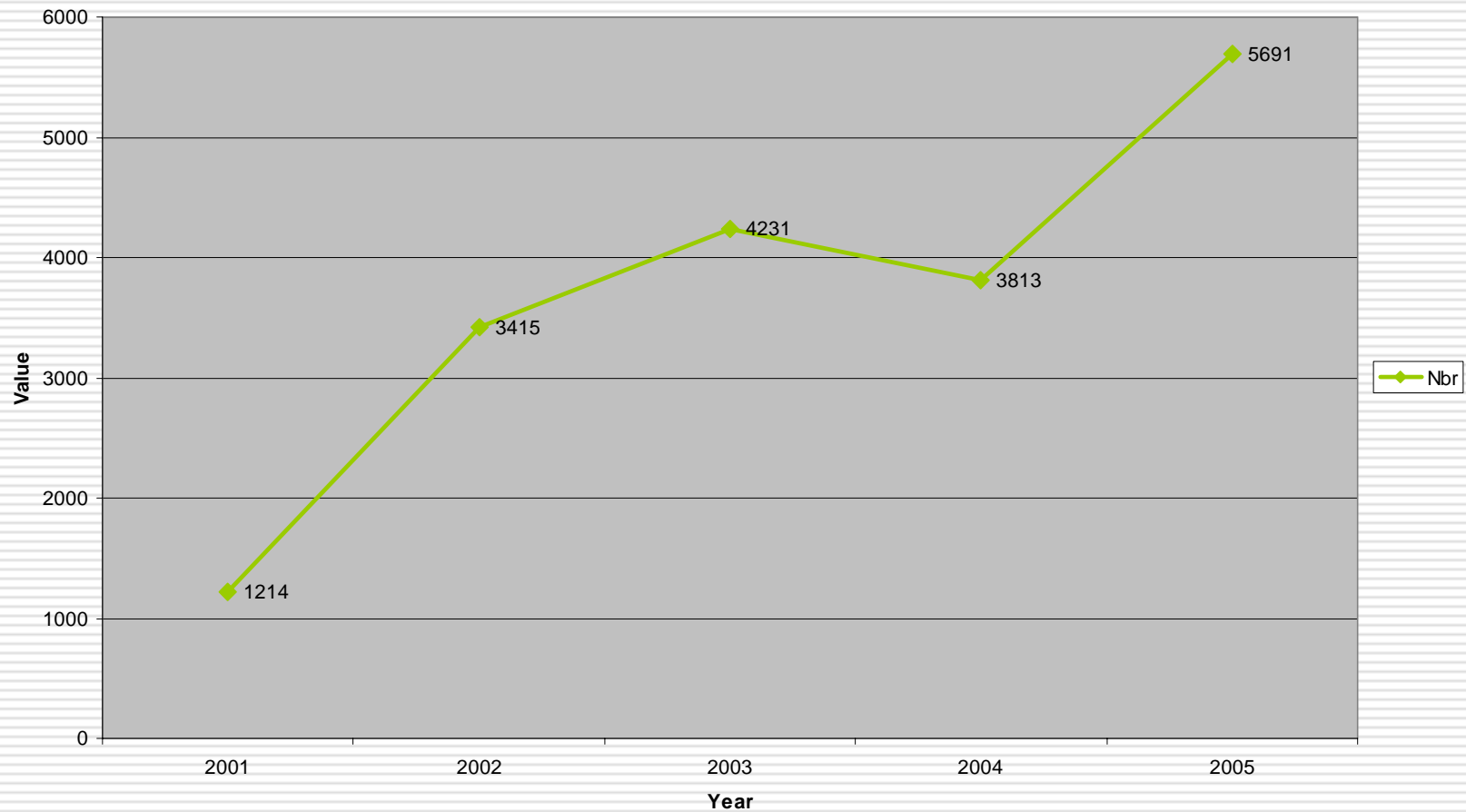
## University of Messina scientific Production





# Articles download

Number of downloaded articles

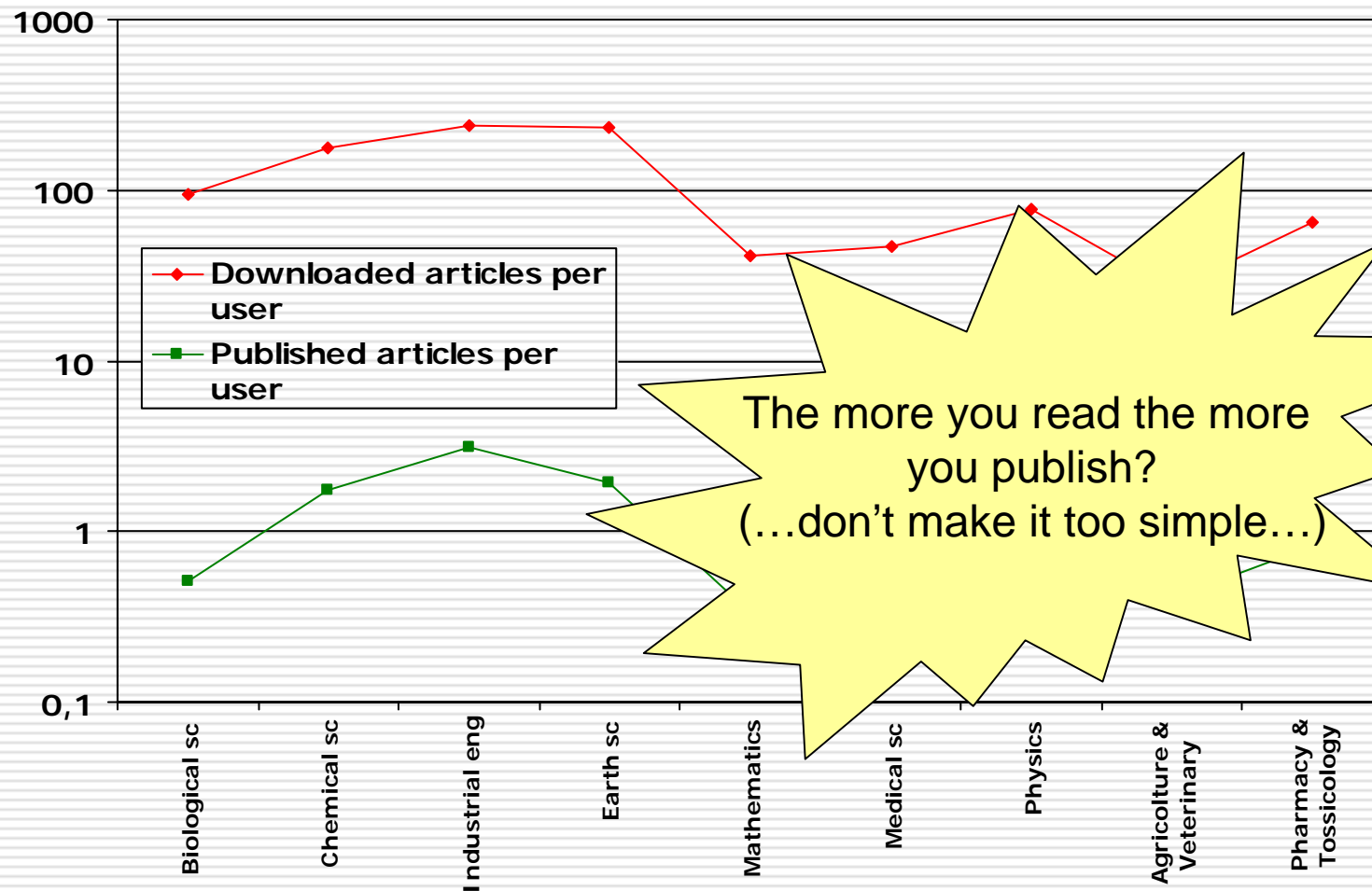


# Possible correlation?

---

- ❑ Given a specific year (2004) we tried to find a possible correlation between the number of downloaded articles and scientific production
- ❑ Focus on various scientific disciplines
- ❑ SCOPUS as tool to measure scientific production (better coverage of Italian scholarly journals)
- ❑ Used *normalized* data

# The *RMS* user



The more you read the more you publish?  
(...don't make it too simple...)

# Final remarks

---

- ❑ Difficulty in getting out coherent information on scientific production
- ❑ Data analysis performed only on a specific subset of Messina scientific population
- ❑ Interest in enlarging *user's attitude* to scientific production involving other CIBER universities

---

*Thank you for your attention*

[ugo.contino@caspur.it](mailto:ugo.contino@caspur.it)  
[nunzio@unime.it](mailto:nunzio@unime.it)